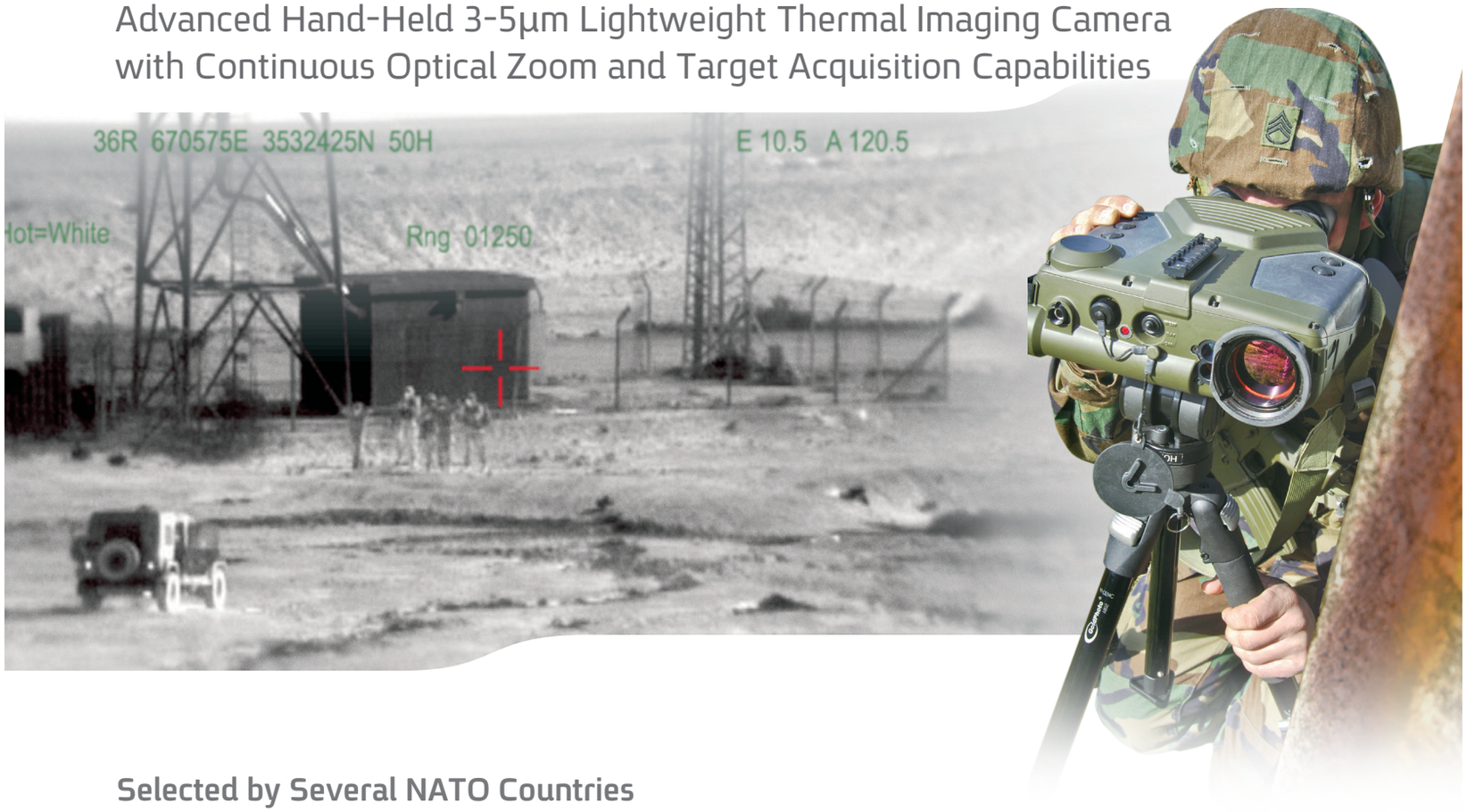
CORAL-CR

Advanced Hand-Held 3-5µm Lightweight Thermal Imaging Camera with Continuous Optical Zoom and Target Acquisition Capabilities



Selected by Several NATO Countries

Main Advantages & Features

- Continuous IR optical and digital zoom
- Long-range performance
- Advanced high resolution detector
- Integral eyesafe LRF, day CCD cameras, digital magnetic compass, integral GPS
- Real-time target acquisition and target coordinate calculation
- Real-time target data transmission of coordinates to external device
- Target image and data storage memory
- Advanced high resolution color OLED display
- Adjustable binocular viewer
- Low acoustic noise

Applications

- Infantry, scouts and special units
- Security and perimeter defense
- Target acquisition systems for infantry commanders
- Night sight and target acquisition for Future Soldier

Elbit Systems
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Options

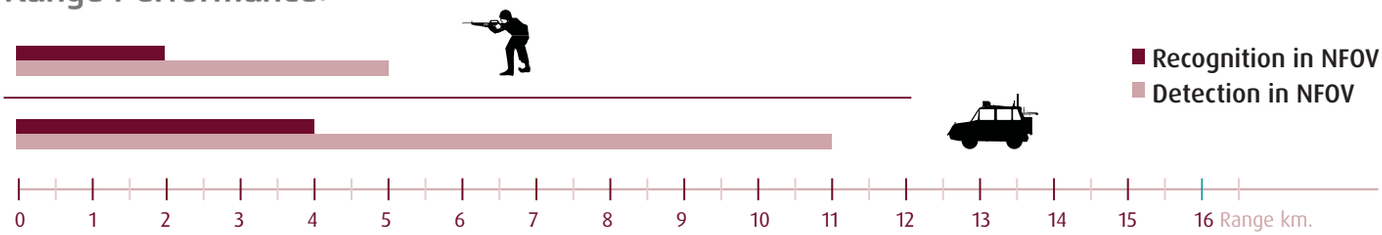
- Add-on x2 telescope
- Integral laser pointer
- Clip-on laser pointer

Technical Data

Thermal Imager:	
Spectral band	3-5µm
Entrance aperture	40 mm
Fields of view (continuous zoom)	
Narrowest	2.5° x 2.0° (CCIR)
Widest	12.5° x 10.0° (CCIR)
Digital zoom (E-zoom)	x2, x4
Detector	
Type	InSb FPA
No. of elements	640 x 512
Cooler	Stirling closed cycle
Video signal	CCIR or RS170
Display	Miniature, high resolution color OLED
Viewer	Adjustable binocular
Day CCD:	
NFOV	2.5° B/W (VIS+NIR) or color
WFOV	10° B/W (VIS+NIR)

LRF:	
Type	Erbium Glass
Wavelength	1.54µm
Laser safety	Eyesafe
Output energy	2 mJ
Max. pulse rate	6 ppm
GPS:	Integral (external GPS optional)
Digital Magnetic Compass (DMC):	
Azimuth accuracy	1º
Elevation accuracy	1º
Displayed angle format	Deg/Mil (User Selectable)
Power source options	Rechargeable or external AC/DC or DC/DC
Weight	<3.7 kg (incl. battery)
Environmental conditions	IAW MIL-STD-810F
Operating temperature	-30°C - +55°C

Range Performance:



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